

Energy efficiency - a key factor in global competitiveness



Dr. Gerhard Dell

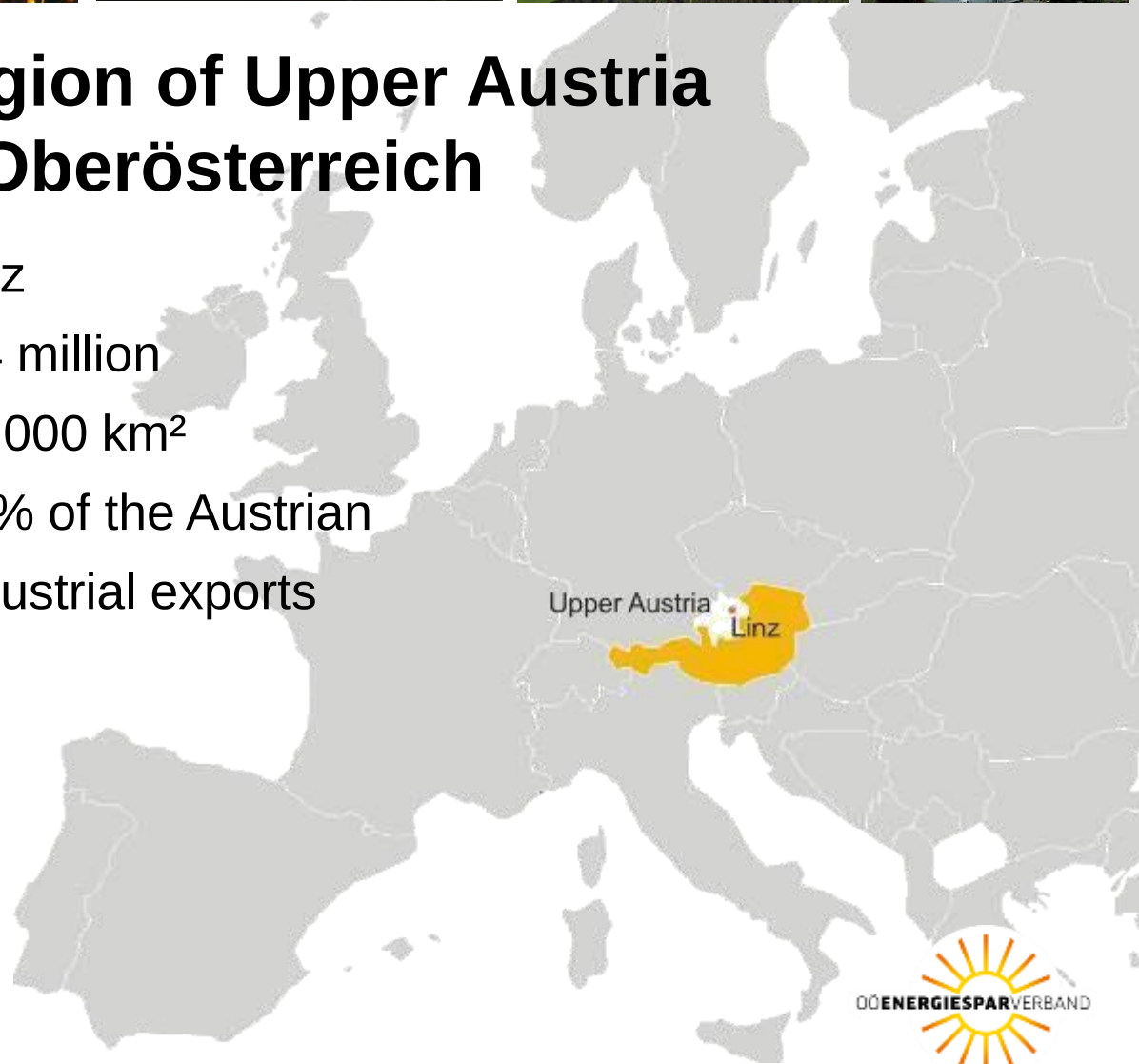
Landesenergiebeauftragter
GF OÖ Energiesparverband

www.energiesparverband.at



The Region of Upper Austria Oberösterreich

Capital: Linz
Population: 1.4 million
Area: 12,000 km²
Economic activity: 25% of the Austrian industrial exports



The Energy Agency of Upper Austria OÖ Energiesparverband

**promotes
energy
efficiency and
renewable
energy**

**provides
services to
households,
businesses &
municipalities**

**develops &
implements
policies &
manages
programmes**

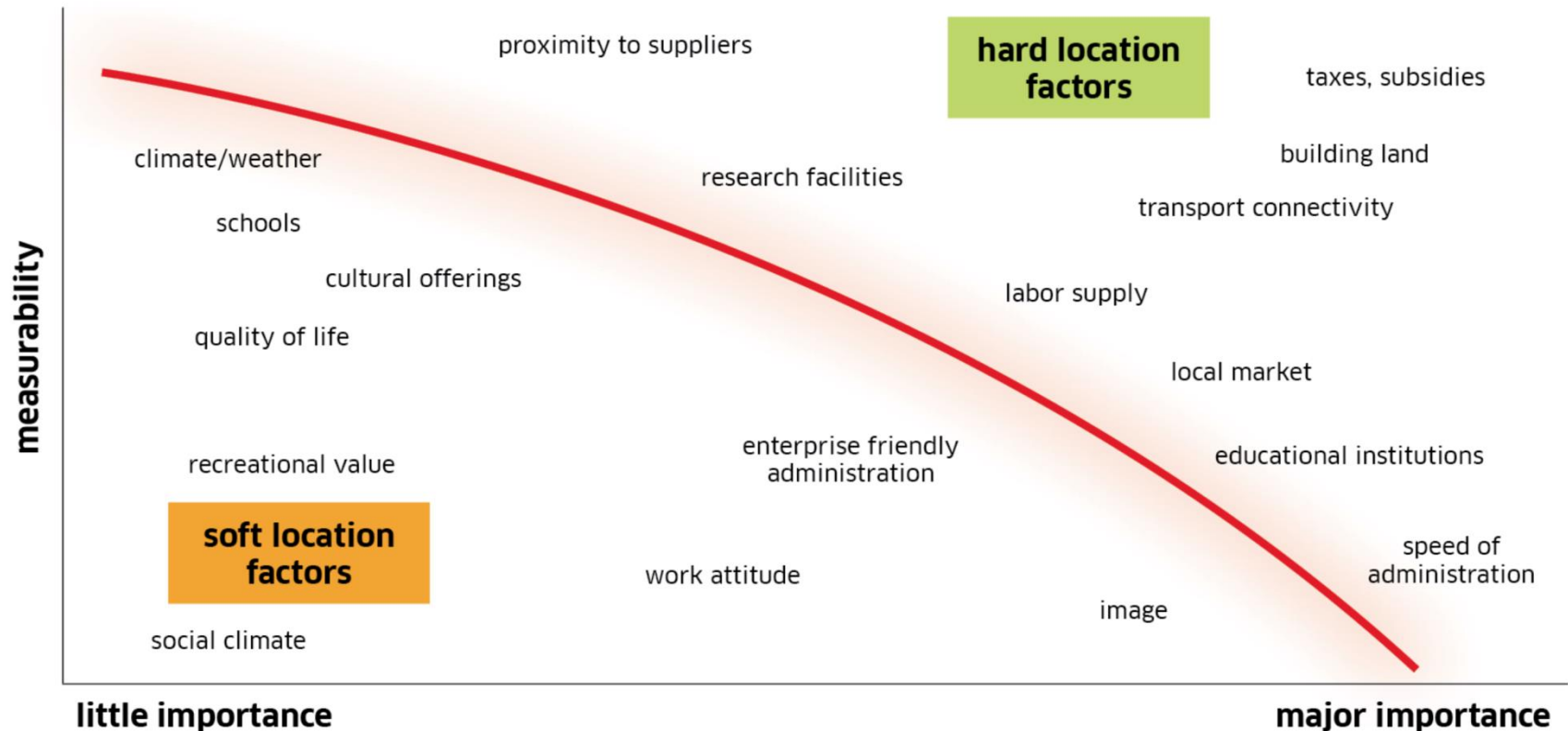


Business location

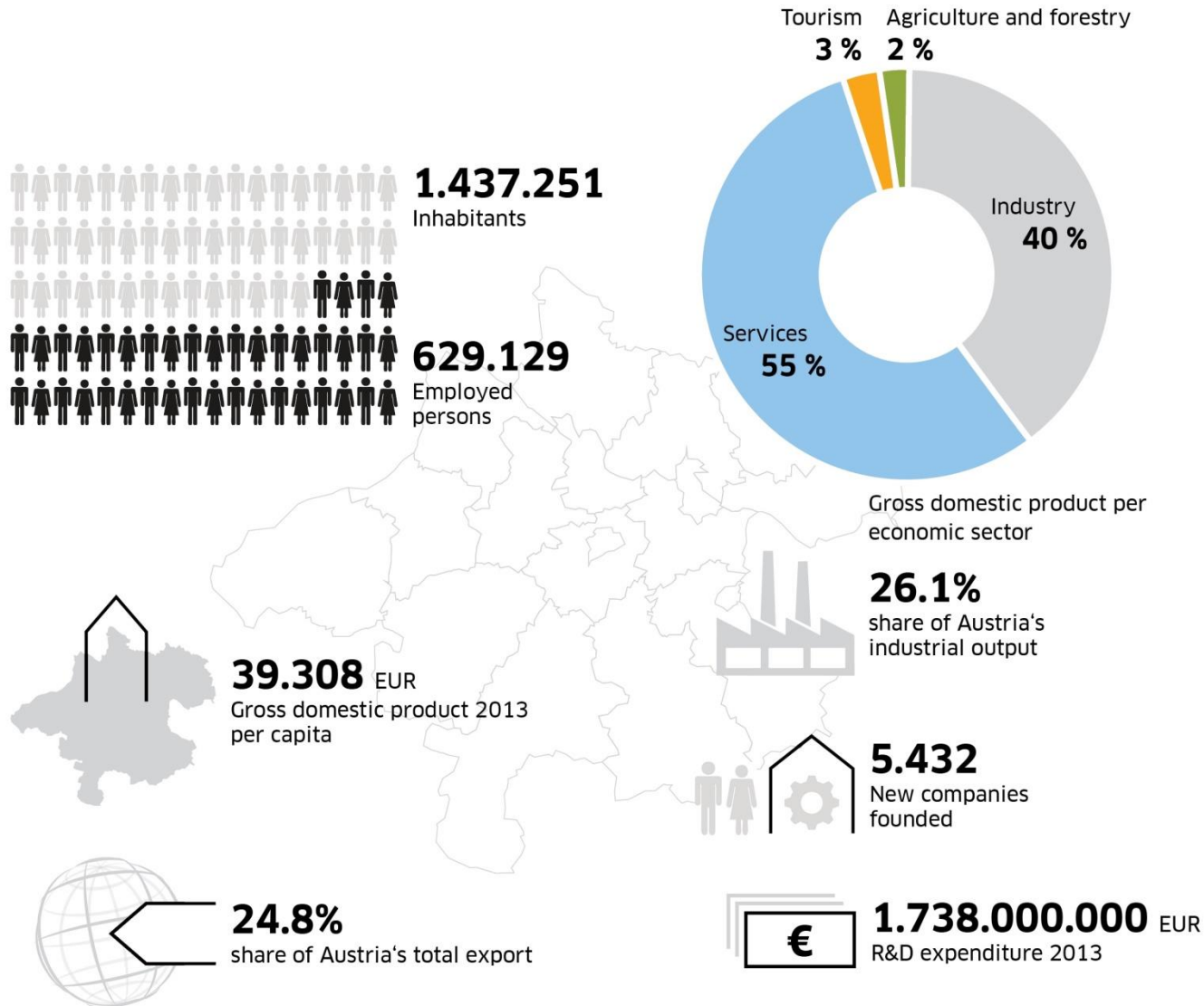
The framework conditions
for businesses and
their economic **development**
opportunities



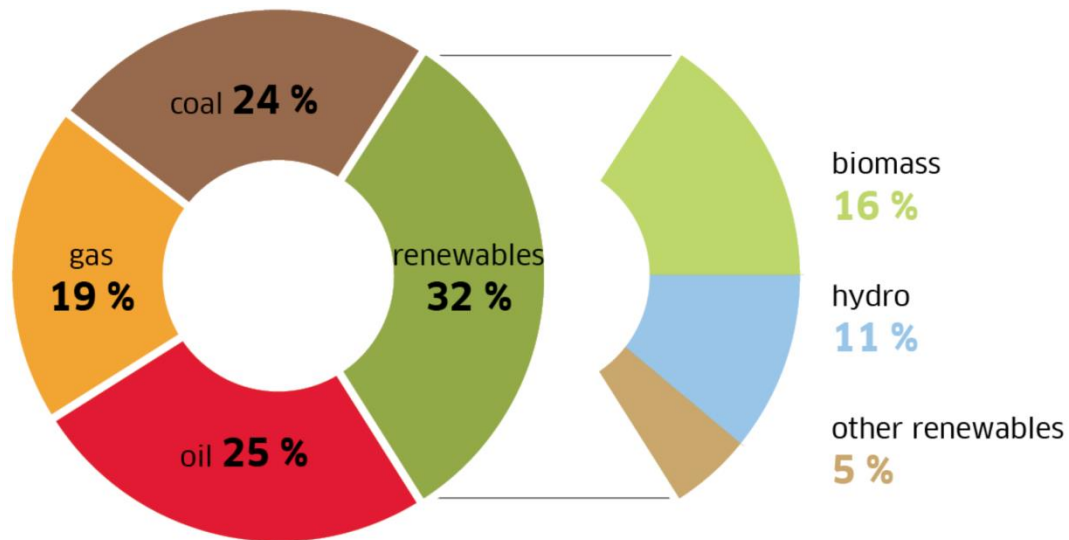
"Location factors" for business development



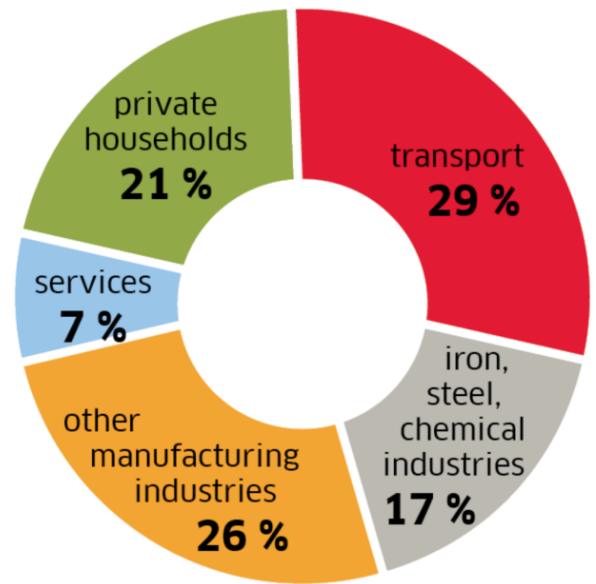
Economic facts Upper Austria



Energy production and consumption Upper Austria



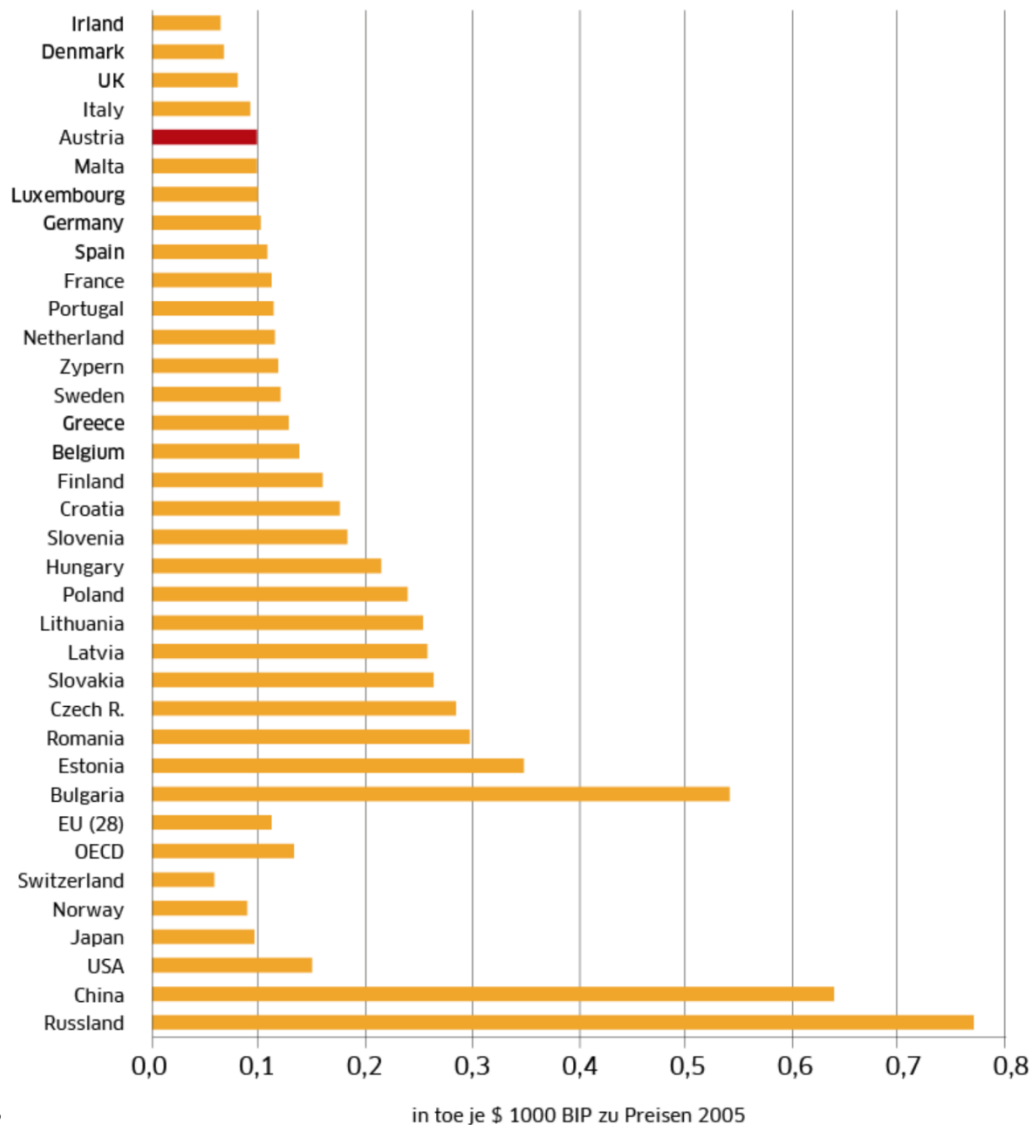
Gross domestic energy consumption by energy source



Sectoral final energy consumption, 2014

Energy intensity

Gross domestic consumption per GDP



Why should businesses be interested in energy efficiency?

- saving costs
- security of supply
- competitiveness
- innovation
- sustainability



Energy (efficiency) as a "location factor"?

Energy as a location factor is not only about:
energy infrastructure, energy prices and energy supply security

but also about

- increasing the competitiveness of all domestic companies by decreasing their energy costs
- increasing the offer of energy efficiency products and services (and export them)

How?

- ambitious energy policies framework
- concrete instruments and measures



Carrots, sticks and tambourines



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Upper Austria's policies for competitive businesses

"sticks"

Regulatory measures

- stringent & progressive requirements for building envelopes (heating & cooling)
- emission & efficiency standards for installations
- mandatory energy management for large businesses

"carrots"

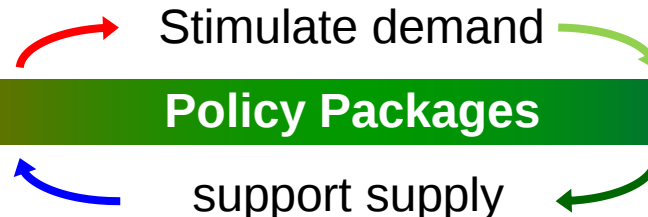
Financial measures

- attractive investment grants for energy efficiency measures & renewable heating
- contracting programme
- regional R & D program, pilot projects

"tambourines"

Information & training

- energy advice
- training programmes
- publications, campaigns & competitions
- CTC - sustainable energy business network



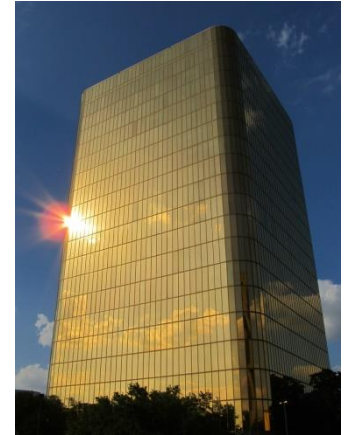
Example "sticks"

Requirements for building cooling

Cooling demand for non-residential buildings:

new buildings: maximum 1 kWh/m³

renovation: maximum 2 kWh/m³



Example office building

1.000 m², 10 kWh/m³ cooling demand = 5.000 €/m² cooling costs p.a.,

at 2 kWh/m³: reduction by 80% = 4.000 €/a

Examples "carrots"

Energy subsidies for businesses

- energy efficiency and renewable energy subsidies for businesses: national and regional programmes since many years
- new attractive programme in Upper Austria since 1 March 2017
- example area: thermal building renovation, heat recovery and use of industrial heat, process optimisation, efficient lighting,
- up to 50 % funding!

Example optimisation lighting: costs 50.000 €, funding 21.750 €

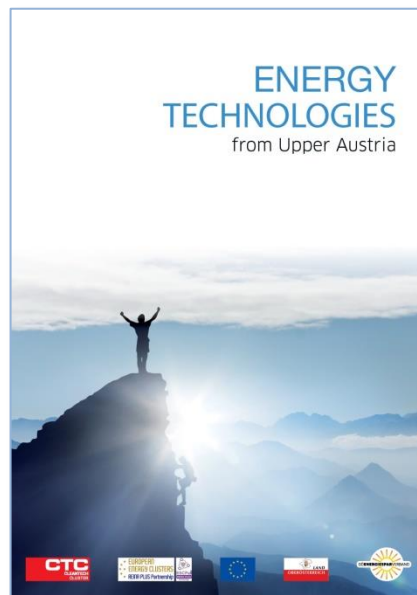
Example optimisation compressed air: costs 138.000 €, funding 65.000 €



Examples "carrots"

Energy technology programme Upper Austria

- funding programme for the development of new energy efficiency and renewable technologies, solutions and products (RD&D)
- funding up to 60% of the costs
- 140 project funded with over 70 Million € costs
- resulting in many new products from Upper Austria, available on the domestic market and also for export!



Example "tambourine"

Systematic information offer for energy managers in companies

- targeted development and dissemination of information materials
- information events (e.g. Innovation Fora)
- energy advice for companies
(up to 6 consultants days, 75 % subsidy)
- training programmes in the "Energy Academy"
- active promotion of funding programmes

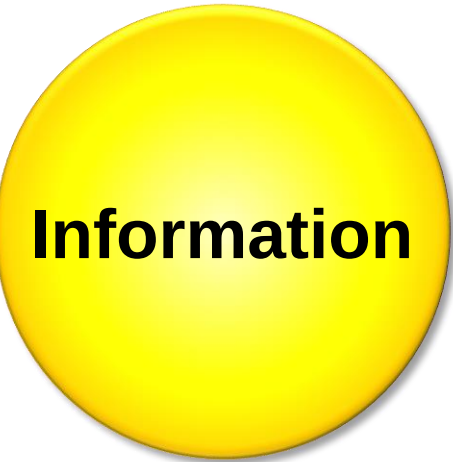


Supporting the offer of the industry

The Cleantech-Cluster (CTC)

**The network of energy & environmental technology
companies in Upper Austria**

160 energy technology partner companies



Information



Innovation



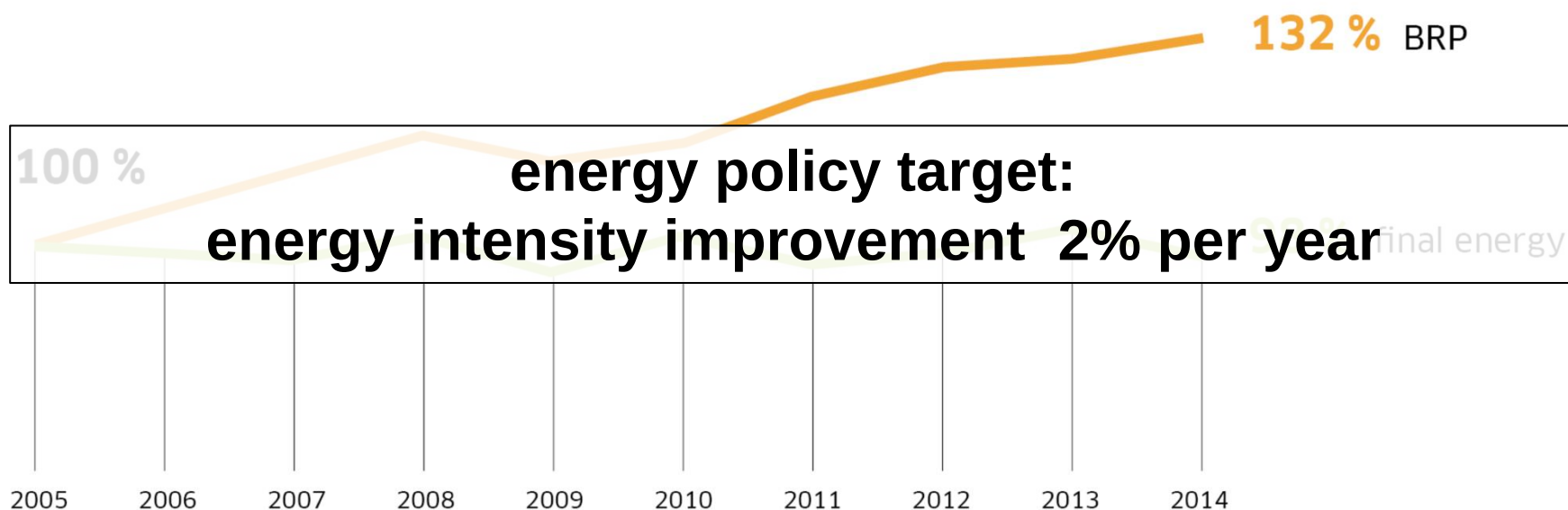
Growth



ENLEIT OÖ

Energietechnologie
Leitregion Oberösterreich

Development of the specific energy consumption Upper Austria



Thank you for your attention!



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